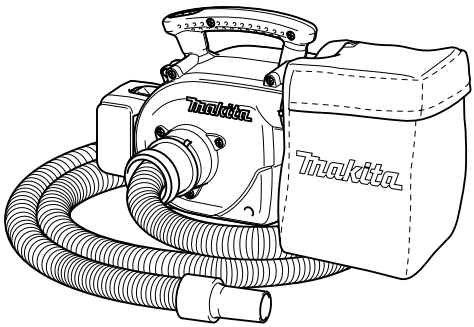
INSTRUCTION MANUAL

Cordless Vacuum Cleaner

LXCV01
LXCV02



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IMPORTANT: Read Before Using.

ENGLISH (Original instructions)

SPECIFICATIONS

Model		LXCV01	LXCV02
Capacity	Volume	3.0 L	
	Max. Air volume	3.3 m^3/min.	3.4 m^3/min.
Continuous use	HIGH	Approx. 10 min. (with BL1430)	Approx. 13 min. (with BL1830)
	LOW	Approx. 20 min. (with BL1430)	Approx. 26 min. (with BL1830)
Overall length		403 mm	
Net weight		2.1 kg	2.2 kg
Rated voltage		D.C. 14.4 V	D.C. 18 V
Standard battery cartridges		BL1430, BL1415	BL1830, BL1815

• Due to our continuing programme of research and development, the specifications herein are subject to change without notice.

• Specifications and battery cartridge may differ from country to country.

• Weight, with battery cartridge, according to EPTA-Procedure 01/2003

USA019-2

IMPORTANT

SAFETY INSTRUCTIONS

When using an electrical appliance, basic precautions should always be followed, including the following:

READ ALL INSTRUCTIONS BEFORE USING THIS APPLIANCE.

WARNING - To reduce the risk of fire, electric shock or injury:

1. **Do not leave appliance when battery fitted. Remove battery from appliance when not in use and before servicing.**
2. **Do not expose to rain. Store indoors.**
3. **Do not allow to be used as a toy. Close attention is necessary when used by or near children.**
4. **Use only as described in this manual. Use only manufacturer's recommended attachments.**
5. **Do not use with damaged battery. If appliance is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center.**
6. **Do not handle appliance with wet hands.**
7. **Do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.**
8. **Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.**
9. **Turn off all controls before removing the battery cartridge.**
10. **Use extra care when cleaning on stairs.**
11. **Do not use to pick up flammable or combustible liquids, such as gasoline, or use in areas where they may be present.**
12. **Use only the charger supplied by the manufacturer to recharge.**
13. **Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.**
14. **Do not use without dust bag in place.**
15. **Do not charge the battery outdoors.**
16. **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
17. **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
18. **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.

SAVE THESE INSTRUCTIONS.

This appliance is intended for commercial use.

USB103-1

ADDITIONAL SAFETY RULES

1. **Read this instruction manual and the charger instruction manual carefully before use.**
2. **Do not pick up the following materials:**
   - **Hot materials such as lit cigarettes or spark/metal dust generated by grinding/cutting metal**

- **Flammable materials such as gasoline, thinner, benzine, kerosene or paint**
- **Explosive materials like nitroglycerin**
- **Ignitible materials such as Aluminum, zinc, magnesium, titanium, phosphorus or celluloid**
- **Wet dirt, water, oil or the like**
- **Hard pieces with sharp edges, such as wood chips, metals, stones, glasses, nails, pins or razors**
- **Powder to clot such as cement or tonor**
- **Conductive dust such as metal or carbon**
- **Fine particle like concrete dust**

Such action may cause fire, injury and/or property damage.

3. **Stop operation immediately if you notice anything abnormal.**
4. **If you drop or strike the cleaner, check it carefully for cracks or damage before operation.**
5. **Do not bring close to stoves or other heat sources.**
6. **Do not block the intake hole or vent holes.**
7. **When using the cleaner as a blower**
   - **always use protective goggles, a cap and mask while operating;**
   - **always be sure that the cleaner is switched off and the battery cartridge is removed before clearing a blockage;**
   - **always be sure of your footing on slopes;**
   - **walk, never run;**
   - **never point the nozzle at anyone in the vicinity;**
   - **Keep all nuts, bolts and screws tight to be sure the cleaner is in safe working condition;**
   - **Store the cleaner only in a dry place;**
   - **The operator or user is responsible for accidents or hazzards ocurring to other people or their property.**

SAVE THESE INSTRUCTIONS.

USD305-1

Symbols

The followings show the symbols used for tool.

V · volts

⎓ · direct current

ENC007-6

IMPORTANT SAFETY INSTRUCTIONS

FOR BATTERY CARTRIDGE

1. **Before using battery cartridge, read all instructions and cautionary markings on (1) battery charger, (2) battery, and (3) product using battery.**
2. **Do not disassemble battery cartridge.**
3. **If operating time has become excessively shorter, stop operating immediately. It may result in a risk of overheating, possible burns and even an explosion.**
4. **If electrolyte gets into your eyes, rinse them out with clear water and seek medical attention right away. It may result in loss of your eyesight.**
5. **Do not short the battery cartridge:**
   (1) **Do not touch the terminals with any conductive material.**
   (2) **Avoid storing battery cartridge in a container with other metal objects such as nails, coins, etc.**
   (3) **Do not expose battery cartridge to water or rain.**

   A battery short can cause a large current flow, overheating, possible burns and even a breakdown.
6. **Do not store the tool and battery cartridge in locations where the temperature may reach or exceed 50 ˚ C (122 ˚ F).**
7. **Do not incinerate the battery cartridge even if it is severely damaged or is completely worn out. The battery cartridge can explode in a fire.**
8. **Be careful not to drop or strike battery.**
9. **Do not use a damaged battery.**

SAVE THESE INSTRUCTIONS.

Tips for maintaining maximum battery life

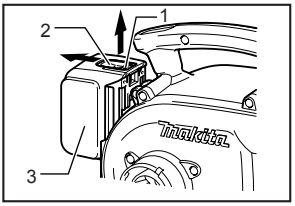
1. **Charge the battery cartridge before completely discharged.**
   Always stop tool operation and charge the battery cartridge when you notice less tool power.
2. **Never recharge a fully charged battery cartridge.**
   Overcharging shortens the battery service life.
3. **Charge the battery cartridge with room temperature at 10 ˚ C - 40 ˚ C (50 ˚ F - 104 ˚ F).**
   Let a hot battery cartridge cool down before charging it.

FUNCTIONAL DESCRIPTION

⚠CAUTION:

- Always be sure that the cleaner is switched off and the battery cartridge is removed before adjusting or checking function on the cleaner.

Installing or removing battery cartridge



1. Red part
2. Button
3. Battery cartridge

011112

- Always switch off the cleaner before insertion or removal of the battery cartridge.
- To remove the battery cartridge, withdraw it from the cleaner while sliding the button on the front of the cartridge as shown in the figure.
- To insert the battery cartridge, align the tongue on the battery cartridge with the groove in the housing and slip it into place. Always insert it all the way until it locks in place with a little click. If you can see the red part on the upper side of the button, it is not locked completely. Insert it fully until the red part cannot be seen. If not, it may accidentally fall out of the cleaner, causing injury to you or someone around you.
- Do not use force when inserting the battery cartridge. If the cartridge does not slide in easily, it is not being inserted correctly.

Battery protection system

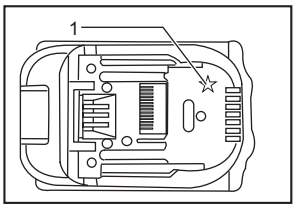
The cleaner is equipped with the protection system, which automatically cuts off the output power for its long service life.

The cleaner stops during operation when the cleaner and/or battery are placed under the following situation. This is caused by the activation of protection system and does not show the cleaner trouble.

- When the cleaner is overloaded:
  At this time, press the "OFF" button and remove causes of overload and then press the "HIGH/LOW" button again to restart.
- When battery cells get hot: (refer to the note below.)
  If any operation of the "HIGH/LOW" button and the "OFF" button, the motor will remain stopped. At this time, stop use of the cleaner and cool or charge the battery cartridge after removing it from the cleaner.
- When the remaining battery capacity gets low:
  If any operation of the "HIGH/LOW" button and the "OFF" button, the motor will remain stopped. At this time, remove the battery cartridge from the cleaner and charge it.

NOTE:

- This temperature-sensitive protection is applied only when the cleaner is used with a battery cartridge with a star mark.



1. Star mark

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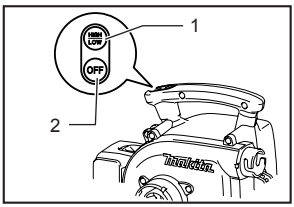
Switch action



1. HIGH/LOW button
2. OFF button

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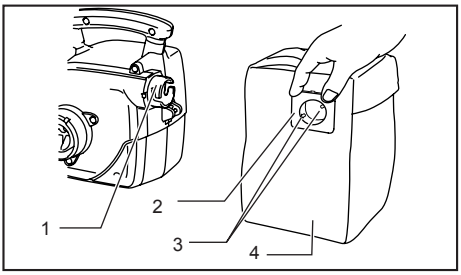
To start the cleaner, simply press the "HIGH/LOW" button. To switch off, press the "OFF" button. To change the cleaner speed, press the "HIGH/LOW" button. The first press on this button is for high speed and the second press for low speed and then each press on this button repeats the high/low speed cycle alternatively.

ASSEMBLY

⚠CAUTION:

- Always be sure that the cleaner is switched off and the battery cartridge is removed before carrying out any work on the cleaner.
- Any work with the battery cartridge being installed on the cleaner may cause a personal injury or damage to the objects around the cleaner.

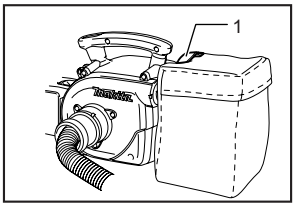
Installing dust bag



1. Dust outlet
2. Dust bag joint
3. Pins
4. Dust bag

011113

Hold the square section of the dust bag joint and fit the pins inside the dust bag joint to the notches in the dust outlet of the cleaner and then insert and turn it clockwise all the way until it stops.



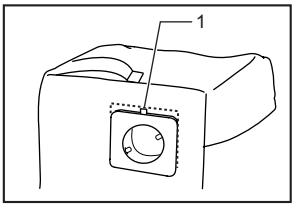
1. Hook

011114

At this time, make sure that the fastener part on the dust bag faces upward.

NOTE:

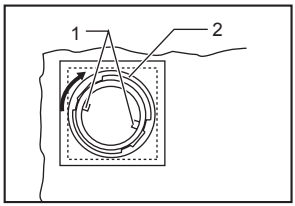
- When the dust bag joint and the ring inside the dust bag come off, install as follows.
  (1) Align the dust bag joint with the seam of the dust bag and install it so that its protrusion faces upward.



1. Protrusion

011115

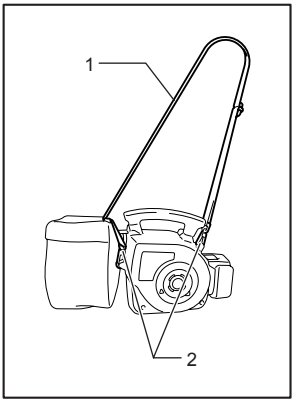
(2) Tighten the ring inside the dust bag firmly so that the pins and the ring are positioned as shown in the figure.



1. Pins
2. Ring

011116

Installing the shoulder strap

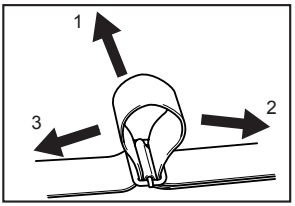


1. Shoulder strap
2. Two hooks

011117

Attach one end hook of the shoulder strap onto the ring in the front of the cleaner and thrust the other end of the strap through the band of the dust bag and then attach the other end hook as shown in the figure.

Adjusting the shoulder strap



1. Pull out
2. For shortening
3. For extending

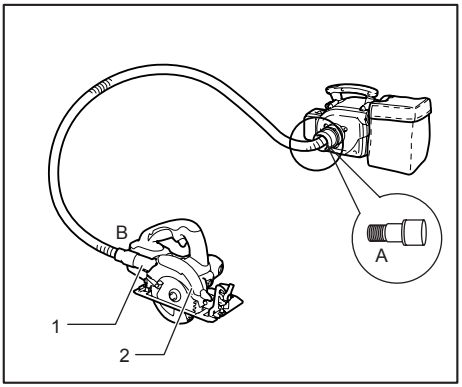
011118

To adjust the length of the shoulder strap, pull it out to your desired length and pull the strap in the direction of arrow as shown in the figure.

Connecting the hose

⚠**CAUTION:**

- **Do not force the hose to bend it and/or stamp it.** Forcing and/or stamping the hose may cause deformation or damage to the hose.
- **Do not pull the hose to carry the cleaner.** Pulling the hose may cause deformation or damage to the hose.



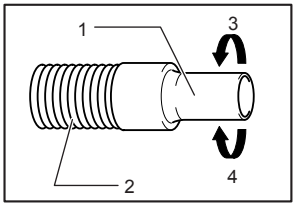
1. Dust outlet
2. Power tool

011119

Insert the "A" end of the hose to the suction opening of the cleaner and turn it clockwise all the way until it locks. Attach the cuff on the "B" end of the hose and then connect it to the dust outlet of an power tool.

Replacing the front cuff

Change the front cuff of the hose according to the dust outlet size of a power tool you use.



1. Front cuff
2. Hose
3. Remove
4. Install

011120

To remove the front cuff, hold the hose and turn it counterclockwise.

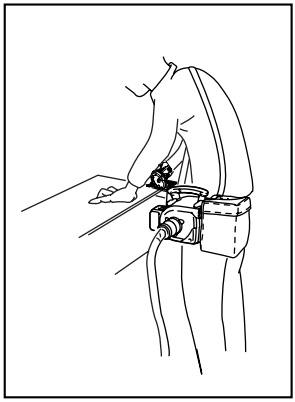
To mount the front cuff, turn it clockwise and then screw it in until it stops.

OPERATION

⚠**WARNING:**

- Do not use the shoulder strap when working in a high place.
- When using the cleaner as a stationary cleaner, place it on a flat and stable surface

Vacuum Cleaner



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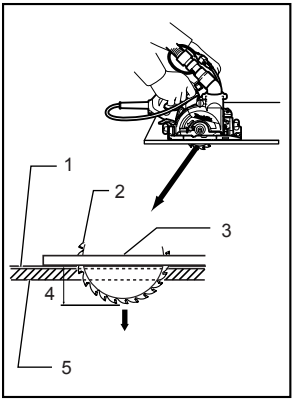
When using the cleaner as a portable cleaner, cross-hanging the shoulder strap before the breast is difficult to drop the cleaner.



1. Decorative paper
2. Saw blade
3. Base
4. Cutting depth
5. Plaster board

011123

NOTE:

- Long cut-off decorative paper that may be produced by plaster board cutting work depending on the conditions of workpiece to be cut and that may be stuffed inside the hose may cause the hose suction blocking. When this occurs, change the cutting depth setting of power tool to deeper depth, which will relieve the hose suction blocking.

⚠CAUTION:

- When the dust bag is just new, dust may come out of its surface. Using it a few times will minimize the dust leak from the surface.

Operation of the cleaner with a nozzle or a dust bag being installed

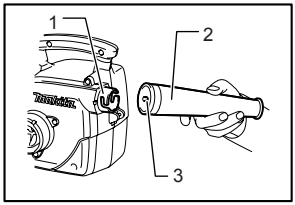
⚠WARNING:

- **Always be sure that the cleaner is switched off and the battery cartridge is removed before installing or removing the nozzle or any other attachment on the cleaner.** Failure to switch off and remove the battery cartridge may result in serious personal injury.

NOTE:

- Before the blower mode operation immediately after the cleaner mode operation, remove all remaining dust from the cleaner due to possible blow out of dust .

Using as a blower



1. Outlet (air vent)
2. Nozzle
3. Pin

011124

Install the nozzle onto the outlet (air vent) without fail.
To install the nozzle, fit the pin protruding from the inside of nozzle to one of the cleaner notches and then turn the nozzle clockwise securely.
To remove the nozzle, turn counterclockwise and pull it out.
Direct the top point of the cleaner and then switch on.

Emptying the dust bag

⚠WARNING:

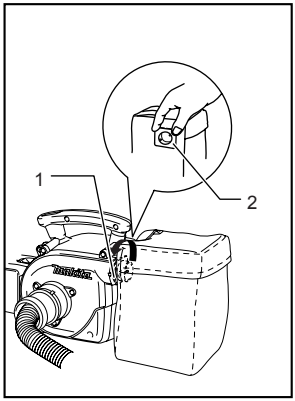
- **Always be sure that both the cleaner and a connected power tool are switched off and the battery cartridge is removed and the power tool, if corded tool, is unplugged before installing or removing the dust bag on the cleaner and emptying the dust bag(made of cloth).** Failure to switch off, remove the battery cartridge and unplug the connected power tool may result in electric shock and serious personal injury.
- When the dust bag is about half full, remove the dust bag from the cleaner and pull the fastener out. Empty the dust bag of its contents, tapping it lightly so as to remove particles adhering to the insides which might hamper further collection.

NOTE:

- **For the time to empty the dust bag, use a guide line that the dust bag becomes full when drilling about 450 holes with 6.5 mm diameter and 40 mm depth on the concrete.** A dust bag clogged with the built up particles may reduce the dust collection power and cause damage to the cleaner motor.

⚠CAUTION:

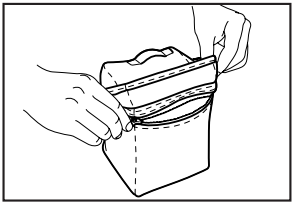
- **Attach the dust bag (made of cloth) to the dust bag joint securely and close the fastener completely before use.** Failure to attach the dust bag securely and close its fastener completely may cause blow-out of dust and result in serious personal injury.



1. Dust bag joint
2. Square section

011125

Pick up the square section of the dust bag joint firmly, turn it counterclockwise and then remove the dust bag.



011126

Open the fastener and dispose of the dust.

⚠CAUTION:

- Remove all particles adhering to the fastener area.

MAINTENANCE

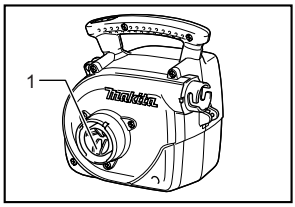
⚠WARNING:

- Always be sure that the cleaner is switched off and the battery cartridge is removed before attempting to perform inspection or maintenance.

Cleaning the filter area

⚠CAUTION:

- Do not pick up materials other than dust , such as stone, wood chip and the like since this cleaner is intended for dust collection. Picking up stone, wood chip and the like may cause damage to the fan and the cleaner.



1. Filter area

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Check and clean up the filter area in the suction inlet regularly. Remove foreign objects which will obstruct suction.

Cleaning

From time to time wipe off the outside (cleaner body) of the cleaner using a cloth dampened in soapy water.

⚠CAUTION:

- Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Makita Authorized or Factory Service Centers, always using Makita replacement parts.

ACCESSORIES

⚠CAUTION:

- These accessories or attachments are recommended for use with your Makita cleaner specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose.

If you need any assistance for more details regarding these accessories, ask your local Makita Service Center.

- Nozzles
- Dust bags
- Hoses
- Front cuffs
- Shoulder straps
- Various type of Makita genuine batteries and chargers

MAKITA LIMITED ONE YEAR WARRANTY

Warranty Policy

Every Makita tool is thoroughly inspected and tested before leaving the factory. It is warranted to be free of defects from workmanship and materials for the period of ONE YEAR from the date of original purchase. Should any trouble develop during this one year period, return the COMPLETE tool, freight prepaid, to one of Makita's Factory or Authorized Service Centers. If inspection shows the trouble is caused by defective workmanship or material, Makita will repair (or at our option, replace) without charge.

This Warranty does not apply where:

- repairs have been made or attempted by others:
- repairs are required because of normal wear and tear:
- the tool has been abused, misused or improperly maintained:
- alterations have been made to the tool.

IN NO EVENT SHALL MAKITA BE LIABLE FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES FROM THE SALE OR USE OF THE PRODUCT. THIS DISCLAIMER APPLIES BOTH DURING AND AFTER THE TERM OF THIS WARRANTY.

MAKITA DISCLAIMS LIABILITY FOR ANY IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF "MERCHANTABILITY" AND "FITNESS FOR A SPECIFIC PURPOSE," AFTER THE ONE YEAR TERM OF THIS WARRANTY.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

EN0006-1

< USA only >

WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
• lead from lead-based paints,
• crystalline silica from bricks and cement and other masonry products, and
• arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

< USA solamente >

ADVERTENCIA

Algunos tipos de polvo creados por el lijado, serrado, amolado, taladrado, y otras actividades de la construccion contienen sustancias quimicas reconocidas por el Estado de California como causantes de cancer, defectos de nacimiento y otros peligros de reproduccion. Algunos ejemplos de estos productos quimicos son:
• plomo de pinturas a base de plomo,
• silice cristalino de ladrillos y cemento y otros productos de albanileria, y
• arsenico y cromo de maderas tratadas quimicamente.

El riesgo al que se expone variara, dependiendo de la frecuencia con la que realice este tipo de trabajo. Para reducir la exposicion a estos productos quimicos: trabaje en un area bien ventilada, y pongase el equipo de seguridad indicado, tal como esas mascaras contra el polvo que estan especialmente disenadas para filtrar particulas microscopicas.

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Anjo, Aichi 446-8502 Japan